

MESOSCALE DISCUSSION 1576  
NWS STORM PREDICTION CENTER NORMAN OK  
1104 AM CDT THU JUL 16 2009

AREAS AFFECTED...CNTRL NY INTO WRN NEW ENGLAND

CONCERNING...SEVERE POTENTIAL...WATCH POSSIBLE

VALID 161604Z - 161730Z

THE THREAT FOR SEVERE STORMS CAPABLE OF DAMAGING WINDS AND HAIL IS  
EXPECTED TO DEVELOP EWD ACROSS DISCUSSION AREA THIS AFTERNOON.  
CONVECTIVE TRENDS ARE BEING MONITORED FOR A WW.

LATEST MESOANALYSIS INDICATED COLD FRONT PUSHING EWD THROUGH THE LEE  
OF LAKES ONTARIO AND ERIE WITH AN ASSOCIATED WARM FRONT /ORIENTED  
GENERALLY N-S/ SITUATED ALONG A LINE FROM NEAR UCA TO MSV TO WRN  
LONG ISLAND. TSTMS ARE BEGINNING TO DEVELOP WITHIN CURRENTLY NARROW  
WARM SECTOR OVER WAYNE...CAYUGA AND ONONDAGA COUNTIES NY WHERE  
TEMPERATURES HAVE WARMED INTO THE UPPER 70S...CONTRIBUTING TO MLCAPE  
OF AROUND 1000 J/KG.

SHORT TERM MODEL GUIDANCE SUGGESTS TSTMS SHOULD CONTINUE TO INCREASE  
IN COVERAGE AND INTENSITY TODAY IN ADVANCE OF SURFACE COLD FRONT AS  
IT APPROACHES THE HUDSON VALLEY. CONTINUED BOUNDARY LAYER HEATING  
COMBINED WITH DEWPOINTS OF 65-70 F SHOULD SUPPORT AN INCREASE IN  
MLCAPE TO 1000-2000 J/KG. WHEN COUPLED WITH MODEST /30-40 KT/  
UNIDIRECTIONAL...DEEP WLY SHEAR...SETUP WILL FAVOR THE DEVELOPMENT  
OF LINE SEGMENTS AND ORGANIZED STORM CLUSTERS CAPABLE OF DAMAGING  
WIND GUSTS AND HAIL.

..MEAD.. 07/16/2009

ATTN...WFO...BOX...BTV...OKX...ALY...BGM...BUF...

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